

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-108801
(43)Date of publication of application : 20.04.2001

(51)Int.Cl. G02B 1/02
C30B 29/12
G02B 1/10

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(54) OPTICAL MEMBER FOR VACUUM ULTRAVIOLET REGION AND COATING
MATERIAL FOR OPTICAL MEMBER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an optical member for vacuum UV region which has low deliquescence and cleavage properties and has high durability even when irradiated with high-energy light, to provide an optical member for vacuum UV region which has high crystal homogeneity free of double refraction and distortion, can be manufactured at a low temperature, is excellent in productivity and contributes to the reduction of the manufacturing cost and to provide a coating material for the optical member which allows the embodiment of the high durability and the wavelength characteristics specific to thin films.

SOLUTION: The optical member for vacuum UV region consisting of the crystal expressed by the formula: KMF_3 (where M is respectively independently selected from Ca, Mg, or Sr) and the coating material for the optical member consisting of this fluoride crystal.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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